

=> fil reg; d que 15  
FILE 'REGISTRY' ENTERED AT 09:04:14 ON 09 MAY 2003  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 7 MAY 2003 HIGHEST RN 511677-22-8  
DICTIONARY FILE UPDATES: 7 MAY 2003 HIGHEST RN 511677-22-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

L3 176 SEA FILE=REGISTRY ABB=ON CAAGCCCGAGAGAGAUGAUG|CAUCAUCUCUCUGGCG *Seq 15-18 &*  
CUUG|ACAAGGCACUGACCAUCUGG|CCAGAUGGUCAGUGCCUUGU|GACCAUCUGGUGCGCC *their complemen*  
GUCA|UGACGGCCGACCGAGAUUGUC|CAGAGAGAAUGAUGGGGAGGG|CCUCUCCCAUCAUC  
UCUCUG/SQSN  
L4 137 SEA FILE=REGISTRY ABB=ON GCUCUAAGAAGAACAGCCUG|CAGGCUGUUCUUCUUA *Seq 33-35 &*  
GAGC|GCUCUAAGAGGAACAGCCUG|CAGGCUGUUCUUCUUAAGAGC|AGAGAGAUGAUGGGGA *D*  
GGGCAGGGGUGAAG|CUUCACCCUGGCCUCCCAUCAUCUCU/SQSN *their complements*  
L5 24 SEA FILE=REGISTRY ABB=ON (L3 OR L4) AND SQL<101

=> d rn cn kwic nte lc 15 1-24

L5 ANSWER 1 OF 24 REGISTRY COPYRIGHT 2003 ACS  
RN 443818-12-0 REGISTRY  
CN DNA, d(G-C-T-C-T-A-A-G-A-G-A-C-A-G-C-C-T-G) (9CI) (CA INDEX NAME)  
SQL 20

SEQ 1 gctctaagag gaacagcctg

HITS AT: 1-20

LC STN Files: CA, CAPLUS, USPATFULL

L5 ANSWER 2 OF 24 REGISTRY COPYRIGHT 2003 ACS  
RN 443818-11-9 REGISTRY  
CN DNA, d(G-C-T-C-T-A-A-G-A-G-A-A-C-A-G-C-C-T-G) (9CI) (CA INDEX NAME)  
SQL 20

SEQ 1 gctctaagaa gaacagcctg

HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS, USPATFULL

L5 ANSWER 3 OF 24 REGISTRY COPYRIGHT 2003 ACS  
RN 443818-10-8 REGISTRY  
CN DNA, d(C-A-G-A-G-A-G-A-T-G-A-T-G-G-G-A-G-G-G) (9CI) (CA INDEX NAME)  
SQL 21

SEQ 1 cagagagaat gatggggagg g

HITS AT: 1-21

LC STN Files: CA, CAPLUS, USPATFULL

L5 ANSWER 4 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 443818-09-5 REGISTRY

CN DNA, d(G-A-C-C-A-T-C-T-G-G-T-C-G-G-C-C-G-T-C-A) (9CI) (CA INDEX NAME)

SQL 20

SEQ 1 gaccatctgg tcggccgtca

HITS AT: 1-20

LC STN Files: CA, CAPLUS, USPATFULL

L5 ANSWER 5 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 443818-08-4 REGISTRY

CN DNA, d(A-C-A-A-G-G-C-A-C-T-G-A-C-C-A-T-C-T-G-G) (9CI) (CA INDEX NAME)

SQL 20

SEQ 1 acaaggcact gaccatctgg

HITS AT: 1-20

LC STN Files: CA, CAPLUS, USPATFULL

L5 ANSWER 6 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 443818-07-3 REGISTRY

CN DNA, d(C-A-A-G-C-G-C-C-A-G-A-G-A-G-A-T-G-A-T-G) (9CI) (CA INDEX NAME)

SQL 20

SEQ 1 caagcgccag agagatgatg

HITS AT: 1-20

LC STN Files: CA, CAPLUS, USPATFULL

L5 ANSWER 7 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 344813-85-0 REGISTRY

CN GenBank AX167982 (9CI) (CA INDEX NAME)

SQL 40

SEQ 1 gctcatgatc aaacgctcta agaagaacag cctgcctggg

HITS AT: 15-34

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L5 ANSWER 8 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 344813-84-9 REGISTRY

CN GenBank AX167981 (9CI) (CA INDEX NAME)

SQL 40

SEQ 1 gaccatctgg tcggccgtca gggacaaggc caggctaggc

HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L5 ANSWER 9 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 344813-71-4 REGISTRY

CN GenBank AX167968 (9CI) (CA INDEX NAME)

SQL 21

SEQ 1 caggctgttc ctcttagagc g

HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L5 ANSWER 10 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 344812-64-2 REGISTRY

CN GenBank AX167857 (9CI) (CA INDEX NAME)

SQL 20

SEQ 1 gctctaagaa gaacagcctg

HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L5 ANSWER 11 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 344812-43-7 REGISTRY

CN GenBank AX167832 (9CI) (CA INDEX NAME)

SQL 49

SEQ 1 catctggctg gccgtcagga acaaggccag gctgttcttc ttagagcgt

HITS AT: 28-47

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L5 ANSWER 12 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 344812-42-6 REGISTRY

CN GenBank AX167831 (9CI) (CA INDEX NAME)

SQL 49

SEQ 1 aagaacagcc tggccttggt cctgacggcc gaccagatgg tcagtgcct

HITS AT: 23-42

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L5 ANSWER 13 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 344812-41-5 REGISTRY

CN GenBank AX167830 (9CI) (CA INDEX NAME)

SQL 49

SEQ 1 ggacaaggcc aggctgttcc tcttagagcg ttgatcatg agcgggctt

HITS AT: 10-29

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L5 ANSWER 14 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 344812-40-4 REGISTRY

CN GenBank AX167829 (9CI) (CA INDEX NAME)

SQL 49

SEQ 1 atgatcaaac gctctaagag gaacagcctg gccttgctcc tgacggccg

HITS AT: 11-30

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L5 ANSWER 15 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 344011-76-3 REGISTRY

CN DNA, d(G-C-T-C-A-T-G-A-T-C-A-A-A-C-G-C-T-C-T-A-A-G-A-A-G-A-A-C-A-G-C-C-T-G-C-C-T-G-G-G) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 166: PN: W00142307 SEQID: 166 unclaimed DNA

SQL 40

SEQ 1 gctcatgatc aaacgctcta agaagaacag cctgcctggg

HITS AT: 15-34

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS, TOXCENTER

L5 ANSWER 16 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 344011-75-2 REGISTRY

CN DNA, d(G-A-C-C-A-T-C-T-G-G-T-C-G-G-C-C-G-T-C-A-G-G-G-A-C-A-A-G-G-C-C-A-G-G-C-T-A-G-G-C) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 165: PN: W00142307 SEQID: 165 unclaimed DNA

SQL 40

SEQ 1 gaccatctgg tcggccgtca gggacaaggc caggetaggc

HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS, TOXCENTER

L5 ANSWER 17 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 344011-65-0 REGISTRY

CN DNA, d(C-A-G-G-C-T-G-T-T-C-C-T-C-T-T-A-G-A-G-C-G) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 152: PN: W00142307 SEQID: 152 unclaimed DNA

SQL 21

SEQ 1 caggetgttc ctcttagagc g

HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS, TOXCENTER

L5 ANSWER 18 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 344010-57-7 REGISTRY

CN DNA, d(G-C-T-C-T-A-A-G-A-A-G-A-A-C-A-G-C-C-T-G) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 41: PN: W00142307 SEQID: 41 unclaimed DNA

SQL 20

SEQ 1 gctctaagaa gaacagcctg

HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS, TOXCENTER

L5 ANSWER 19 OF 24 REGISTRY COPYRIGHT 2003 ACS  
RN 344010-32-8 REGISTRY  
CN DNA, d(C-A-T-C-T-G-G-T-C-G-G-C-C-G-T-C-A-G-G-A-A-C-A-A-G-G-C-C-A-G-G-C-T-G-T-T-C-T-T-A-G-A-G-C-G-T) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 16: PN: W00142307 SEQID: 16 unclaimed DNA

SQL 49

SEQ 1 catctgggtcg gccgtcagga acaaggccag gctgttcttc tttagagcgt  
=====

HITS AT: 28-47

## \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS, TOXCENTER

L5 ANSWER 20 OF 24 REGISTRY COPYRIGHT 2003 ACS  
RN 344010-31-7 REGISTRY  
CN DNA, d(A-A-G-A-A-C-A-G-G-C-C-T-G-G-C-C-T-T-G-T-T-C-C-T-G-A-C-G-G-C-C-G-A-C-C-A-G-A-T-G-G-T-C-A-G-T-G-C-C-T) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 15: PN: W00142307 SEQID: 15 unclaimed DNA

SQL 49

SEQ 1 aagaacagcc tggccttggt cctgacggcc gaccagatgg tcagtgcct  
=====

HITS AT: 23-42

## \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS, TOXCENTER

L5 ANSWER 21 OF 24 REGISTRY COPYRIGHT 2003 ACS  
RN 344010-30-6 REGISTRY  
CN DNA, d(G-G-A-C-A-A-G-G-C-C-A-G-G-C-T-G-T-T-C-C-T-C-T-T-A-G-A-G-C-G-T-T-T-G-A-T-C-A-T-G-A-G-C-G-G-G-C-T-T) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 14: PN: W00142307 SEQID: 14 unclaimed DNA

SQL 49

SEQ 1 ggacaaggcc aggcgtgtcc tcttagagcg ttgatcatg agcgggctt  
=====

HITS AT: 10-29

## \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS, TOXCENTER

L5 ANSWER 22 OF 24 REGISTRY COPYRIGHT 2003 ACS  
RN 344010-29-3 REGISTRY  
CN DNA, d(A-T-G-A-T-C-A-A-A-C-G-C-T-C-T-A-A-G-A-G-G-A-A-C-A-G-C-C-T-G-G-C-C-T-T-G-T-C-C-C-T-G-A-C-G-G-C-C-G) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 13: PN: W00142307 SEQID: 13 unclaimed DNA

SQL 49

SEQ 1 atgatcaaac gctctaagag gaacagcctg gccttgtccc tgacggccg  
=====

HITS AT: 11-30

## \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS, TOXCENTER

L5 ANSWER 23 OF 24 REGISTRY COPYRIGHT 2003 ACS  
RN 209923-50-2 REGISTRY

CN GenBank E13443 (9CI) (CA INDEX NAME)  
SQL 26

SEQ 1 catcatctct ctggcgcttg tgtttc  
=====

HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: GENBANK

L5 ANSWER 24 OF 24 REGISTRY COPYRIGHT 2003 ACS

RN 194814-28-3 REGISTRY

CN DNA, d(C-A-T-C-A-T-C-T-C-T-C-T-G-G-C-G-C-T-T-G-T-T-T-C) (9CI) (CA  
INDEX NAME)

SQL 26

SEQ 1 catcatctct ctggcgcttg tgtttc  
=====

HITS AT: 1-20

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

LC STN Files: CA, CAPLUS

=> fil capl toxcenter uspatf; s l5

FILE 'CAPLUS' ENTERED AT 09:05:58 ON 09 MAY 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'TOXCENTER' ENTERED AT 09:05:58 ON 09 MAY 2003

COPYRIGHT (C) 2003 ACS

FILE 'USPATFULL' ENTERED AT 09:05:58 ON 09 MAY 2003

CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

L7 5 L5

=> dup rem l7

PROCESSING COMPLETED FOR L7

L8 4 DUP REM L7 (1 DUPLICATE REMOVED)

ANSWERS '1-3' FROM FILE CAPLUS

ANSWER '4' FROM FILE USPATFULL

=> d ibib ab hitrn 1-4

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1

ACCESSION NUMBER: 2001:435133 CAPLUS

DOCUMENT NUMBER: 135:41826

TITLE: Mutant estrogen receptor .alpha. and test systems for  
transactivation

INVENTOR(S): Saito, Koichi; Ohe, Norihisa; Satoh, Hideo

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan

SOURCE: PCT Int. Appl., 278 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

WO 2001042307 A1 20010614 WO 2000-JP8553 20001201  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU,  
LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,  
SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,  
ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
EP 1237925 A1 20020911 EP 2000-981647 20001201  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
PRIORITY APPLN. INFO.: JP 1999-348022 A 19991207  
JP 1999-370667 A 19991227  
JP 2000-207011 A 20000707  
JP 2000-220508 A 20000721  
JP 2000-234053 A 20000802  
JP 2000-235460 A 20000803  
JP 2000-235461 A 20000803  
JP 2000-235463 A 20000803  
WO 2000-JP8553 W 20001201  
AB The present invention provides in general an artificial cell, an isolated  
mutant estrogen receptor (ER) .alpha., and an isolated polynucleotide  
encoding the mutant ER.alpha.. The present invention provides a method  
for quant. analyzing an activity for transactivation of a reporter gene by  
a test ER.alpha.. Nine mutants of ER.alpha. were constructed and  
transformed into HeLa cells and the activities for transactivation of  
reporter gene were measured. The present invention provides a method for  
screening a mutant ligand dependent transcriptional factor and a method  
for screening a compd. useful for treating a disorder of a mutant  
ER.alpha.. The present invention provides the use of the mutant  
ER.alpha., a method for diagnosing a genotype of a polynucleotide encoding  
a test ER.alpha. and a method for diagnosing a phenotype of a test  
ER.alpha..  
IT 344010-29-3 344010-30-6 344010-31-7  
344010-32-8 344010-57-7 344011-65-0  
344011-75-2 344011-76-3  
RL: PRP (Properties)  
(unclaimed nucleotide sequence; mutant estrogen receptor .alpha. and  
test systems for transactivation)  
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT  
L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:555507 CAPLUS  
DOCUMENT NUMBER: 137:136009  
TITLE: Methods and compositions in breast cancer diagnosis  
and therapeutics  
INVENTOR(S): Fuqua, Suzanne; O'Connell, Peter; Allred, D. Craig;  
Hopp, Torsten A.  
PATENT ASSIGNEE(S): Baylor College of Medicine, USA  
SOURCE: PCT Int. Appl., 133 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002057283	A1	20020725	WO 2002-US4982	20020116
W: AU, CA, JP				

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
PT, SE, TR

US 2003027778 A1 20030206

US 2002-52092 20020118

PRIORITY APPLN. INFO.:

US 2001-262990P P 20010119

US 2001-304018P P 20010709

AB The invention concerns compns. regarding a specific mutation in estrogen receptor alpha and their use as diagnostic markers in breast tissue, such as premalignant lesions, for the development of breast cancer. More specifically, cells of breast cancer whose nucleic acid comprises the estrogen receptor alpha mutation identify the breast cancer to be an invasive breast cancer.

IT 443818-07-3 443818-08-4 443818-09-5

443818-10-8 443818-11-9 443818-12-0

RL: ARU (Analytical role, unclassified); ANST (Analytical study)

(nucleic acid primer; methods and compns. in breast cancer diagnosis and therapeutics)

REFERENCE COUNT: 1

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:490784 CAPLUS

DOCUMENT NUMBER: 127:215949

TITLE: Primer for PCR for the detection of mRNAs specifying  
various human proteins

INVENTOR(S): Kimoto, Yasuhiko

PATENT ASSIGNEE(S): Nippon Biotherapy K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

JP 09187299	A2	19970722	JP 1996-27222	19960105
-------------	----	----------	---------------	----------

PRIORITY APPLN. INFO.:	JP 1996-27222	19960105
------------------------	---------------	----------

AB PCR primers for the detection of mRNAs specifying progesterone receptor, estrogen receptor, CD8, interleukin 2, parathyroid hormone, cholecystokinin/pancreozymin, glucagon, insulin, ACTH, enkephalin, TSH are provided. Extremely small amts. of mRNAs are detected by amplification with successive application of these primer pairs.

IT 194814-28-3

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(estrogen receptor mRNA detection with; PCR primers for detection of  
mRNAs specifying various human proteins)

L8 ANSWER 4 OF 4 USPATFULL

ACCESSION NUMBER: 2003:38131 USPATFULL

TITLE: Methods and compositions in breast cancer diagnosis and  
therapeutics

INVENTOR(S): Fuqua, Suzanne, Sugar Land, TX, UNITED STATES

O'Connell, Peter, Houston, TX, UNITED STATES

Allred, D. Craig, Houston, TX, UNITED STATES

Hopp, Torsten A., Pearland, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003027778	A1	20030206

APPLICATION INFO.:	US 2002-52092	A1	20020118 (10)
--------------------	---------------	----	---------------

NUMBER	DATE
--------	------

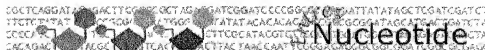


PRIORITY INFORMATION: US 2001-262990P 20010119 (60)  
US 2001-304018P 20010709 (60)  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: FULBRIGHT & JAWORSKI, LLP, 1301 MCKINNEY, SUITE 5100,  
HOUSTON, TX, 77010-3095  
NUMBER OF CLAIMS: 63  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 9 Drawing Page(s)  
LINE COUNT: 5013

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to compositions regarding a specific mutation in estrogen receptor alpha and their use as diagnostic markers in breast tissue, such as premalignant lesions, for the development of breast cancer. More specifically, cells of breast cancer whose nucleic acid comprises the estrogen receptor alpha mutation identify the breast cancer to be an invasive breast cancer.

IT 443818-07-3 443818-08-4 443818-09-5  
443818-10-8 443818-11-9 443818-12-0  
(nucleic acid primer; methods and compns. in breast cancer diagnosis and therapeutics)



1: AX167982. Sequence 166 from...[gi:14597302]

## Links


```

LOCUS       AX167982                40 bp      DNA      linear      PAT 03-JUL-2001
DEFINITION   Sequence 166 from Patent WO0142307.
ACCESSION    AX167982
VERSION      AX167982.1   GI:14597302
KEYWORDS     .
SOURCE       .
  ORGANISM   synthetic construct
             synthetic construct
             artificial sequences.
REFERENCE    1
  AUTHORS    Saito,K., Ohe,N. and Satoh,H.
  TITLE      Mutant er g(a) and test systems for transactivation
  JOURNAL    Patent: WO 0142307-A 166 14-JUN-2001;
             Sumitomo Chemical Company, Limited (JP)
FEATURES     Location/Qualifiers
  source     1..40
             /organism="synthetic construct"
             /mol_type="genomic DNA"
             /db_xref="taxon:32630"
             /note="Description of Artificial Sequence :Designed
             oligonucleotide primer for PCR"
BASE COUNT   12 a      11 c      10 g      7 t
ORIGIN
1  gctcatgatc aaacgctcta agaagaacag cctgcctggg
//

```

Disclaimer | Write to the Help Desk  
NCBI | NLM | NIH

May 2 2003 16:47:12



Sequence logo showing nucleotide conservation across multiple alignments. The y-axis represents information content in bits, ranging from 0 to 1.5. The x-axis shows positions 1 through 10. The sequence logo is composed of letters A, C, G, and T, with their heights indicating their relative frequency at each position.

**Nucleotide**

PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Book
Search	Nucleotide	for	Limits	Preview/Index	History	Clipboard	Details	
Display	default	Show	20	Send to	File	Get Subsequence		

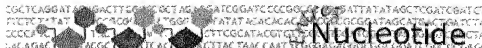
1: AX167981. Sequence 165 from...[gi:14597301]

Links

LOCUS AX167981 40 bp DNA linear PAT 03-JUL-2001  
 DEFINITION Sequence 165 from Patent WO0142307.  
 ACCESSION AX167981  
 VERSION AX167981.1 GI:14597301  
 KEYWORDS .  
 SOURCE synthetic construct  
 ORGANISM synthetic construct  
 artificial sequences.  
 REFERENCE 1  
 AUTHORS Saito,K., Ohe,N. and Satoh,H.  
 TITLE Mutant er g(a) and test systems for transactivation  
 JOURNAL Patent: WO 0142307-A 165 14-JUN-2001;  
 Sumitomo Chemical Company, Limited (JP)  
 FEATURES Location/Qualifiers  
 source 1..40  
 /organism="synthetic construct"  
 /mol\_type="genomic DNA"  
 /db\_xref="taxon:32630"  
 /note="Description of Artificial Sequence :Designed  
 oligonucleotide primer for PCR"  
 BASE COUNT 8 a 12 c 15 g 5 t  
 ORIGIN  
 1 gaccatctgg tcggccgtca gggacaaggc caggctaggc  
 //

Disclaimer | Write to the Help Desk  
 NCBI | NLM | NIH

May 2 2003 16:47:12



[PubMed](#)
[Nucleotide](#)
[Protein](#)
[Genome](#)
[Structure](#)
[PMC](#)
[Taxonomy](#)
[OMIM](#)
[Books](#)

[Limits](#)
[Preview/Index](#)
[History](#)
[Clipboard](#)
[Details](#)

## Links

```

LOCUS      AX167968                               21 bp    DNA            linear    PAT 03-JUL-2001
DEFINITION Sequence 152 from Patent WO0142307.
ACCESSION  AX167968
VERSION    AX167968.1  GI:14597288
KEYWORDS   .
SOURCE     synthetic construct
  ORGANISM synthetic construct
            artificial sequences.
REFERENCE  1
  AUTHORS  Saito,K., Ohe,N. and Satoh,H.
  TITLE    Mutant er g(a) and test systems for transactivation
  JOURNAL  Patent: WO 0142307-A 152 14-JUN-2001;
            Sumitomo Chemical Company, Limited (JP)
FEATURES   Location/Qualifiers
  source   1..21
            /organism="synthetic construct"
            /mol_type="genomic DNA"
            /db_xref="taxon:32630"
            /note="Designed oligonucleotide primer for mutagenesis"
BASE COUNT      3 a          6 c          6 g          6 t
ORIGIN
1 caggctgttc ctcttagagc g
//

```

Disclaimer | Write to the Help Desk  
NCBI | NLM | NIH

May 2 2003 16:47:12

NCBI Nucleotide

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM Bio

Search Nucleotide for Limits Preview/Index History Clipboard Details

Display default Show 20 Send to File Get Subsequence

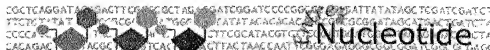
1: AX167857. Sequence 41 from ...[gi:14597176]

Links

LOCUS AX167857 20 bp DNA linear PAT 03-JUL-2001  
 DEFINITION Sequence 41 from Patent WO0142307.  
 ACCESSION AX167857  
 VERSION AX167857.1 GI:14597176  
 KEYWORDS  
 SOURCE synthetic construct  
 ORGANISM synthetic construct  
 artificial sequences.  
 REFERENCE 1  
 AUTHORS Saito,K., Ohe,N. and Satoh,H.  
 TITLE Mutant er g(a) and test systems for transactivation  
 JOURNAL Patent: WO 0142307-A 41 14-JUN-2001;  
 Sumitomo Chemical Company, Limited (JP)  
 FEATURES  
 source Location/Qualifiers  
 1..20  
 /organism="synthetic construct"  
 /mol\_type="genomic DNA"  
 /db\_xref="taxon:32630"  
 /note="Designed oligonucleotide primer for PCR"  
 BASE COUNT 7 a 5 c 5 g 3 t  
 ORIGIN  
 1 gctctaagaa gaacagcctg  
 //

Disclaimer | Write to the Help Desk  
 NCBI | NLM | NIH

May 2 2003 16:47:12



```

1: AX167832. Sequence 16 from ...[gi:14597151]
Links

LOCUS             AX167832               49 bp      DNA        linear    PAT 03-JUL-2001
DEFINITION       Sequence 16 from Patent WO0142307.
ACCESSION        AX167832
VERSION          AX167832.1   GI:14597151
KEYWORDS         .
SOURCE           synthetic construct
ORGANISM         synthetic construct
                 artificial sequences.
REFERENCE        1
AUTHORS          Saito,K., Ohe,N. and Satoh,H.
TITLE            Mutant er_g(a) and test systems for transactivation
JOURNAL          Patent: WO 0142307-A 16 14-JUN-2001;
                 Sumitomo Chemical Company, Limited (JP)
FEATURES         Location/Qualifiers
                 source
                   1..49
                   /organism="synthetic construct"
                   /mol_type="genomic DNA"
                   /db_xref="taxon:32630"
                   /note="Designed oligonucleotide for mutagenesis"
BASE COUNT       9 a          13 c          15 g          12 t
ORIGIN
1 catctgtgtcg gccgtcagga acaaggccag gctgtttctt ttagagcgt
//

```

May 2 2003 16:47:12



CGTCAGGATATGACTTCGGGCTAGAGATGATGATGCCCGGCTGATATATATAGCTCGATCGCT  
TCTCTTATATCCGCGGATATGGCTATATATACAGACAGATGCGCGGATAGCATATCTATCTT  
CCCGAT  
CAGAGAT  
TAT

# Nucleotide

PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books
Search	Nucleotide	for				Go	Clear	
	Limits	Preview/Index		History		Clipboard	Details	
Display	default	Show:	20	Send to:	File	Get Subsequence		

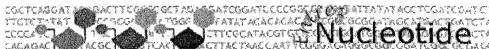
1: AX167831. Sequence 15 from ...[gi:14597150]

## Links

```
LOCUS          AX167831                      49 bp      DNA      linear      PAT 03-JUL-2001
DEFINITION     Sequence 15 from Patent WO0142307.
ACCESSION      AX167831
VERSION        AX167831.1  GI:14597150
KEYWORDS       .
SOURCE         synthetic construct
ORGANISM       synthetic construct
               artificial sequences.
REFERENCE      1
AUTHORS        Saito,K., Ohe,N. and Satoh,H.
TITLE          Mutant er_g(a) and test systems for transactivation
JOURNAL        Patent: WO 0142307-A 15 14-JUN-2001;
               Sumitomo Chemical Company, Limited (JP)
FEATURES       Location/Qualifiers
               source
                 1..49
                 /organism="synthetic construct"
                 /mol_type="genomic DNA"
                 /db_xref="taxon:32630"
                 /note="Designed oligonucleotide for mutagenesis"
BASE COUNT     10 a      15 c      14 g      10 t
ORIGIN
               1 aagaacagcc tggcctgtgt cctgacggcc gaccagatgg tcagtgcct
               //
```

Disclaimer | Write to the Help Desk  
NCBI | NLM | NIH

May 2 2003 16:47:12



1: AX167830. Sequence 14 from ...[gi:14597149] [Links](#)

11

May 2 2003 16:47:12



**Nucleotide**

# Nucleotide

□1: AX167829. Sequence 13 from ...[gi:14597148]

```
LOCUS           AX167829.1           49 bp           DNA           linear           PAT 03-JUL-2001
DEFINITION      Sequence 13 from Patent WO0142307.
ACCESSION       AX167829
VERSION         AX167829.1   GI:14597148
KEYWORDS        .
SOURCE          synthetic construct
ORGANISM        synthetic construct
                artificial sequences.
REFERENCE       1
AUTHORS         Saito,K., Ohe,N. and Satoh,H.
TITLE           Mutant er_g(a) and test systems for transactivation
JOURNAL         Patent: WO 0142307-A 13 14-JUN-2001;
                Sumitomo Chemical Company, Limited (JP)
FEATURES        Location/Qualifiers
                source
                1..49
                /organism="synthetic construct"
                /mol_type="genomic DNA"
                /db_xref="taxon:32630"
                /note="Designed oligonucleotide for mutagenesis"
BASE COUNT      12 a           15 c           13 g           9 t
ORIGIN
                1 atgatcaaac gctctaagag gaacagcctg gctctgtccc tgacggccg
                //
```

Disclaimer | Write to the Help Desk  
NCBI | NLM | NIH

May 2 2003 16:47:12

PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books
Search: <input type="text"/> <input type="button" value="Go"/> <input type="button" value="Clear"/>								
Limits		Preview/Index		History		Clipboard		Details
Display	default	<input type="button" value="Show"/>	20	<input type="button" value="Send to"/>	File	<input type="button" value="Get Subsequence"/>		

□ 1: E13443. PCR primer for de...[gi:3252248]

## Links

```

LOCUS       E13443                               26 bp             linear       PAT 27-APR-1998
DEFINITION  PCR primer for detecting mRNA which encode human estrogen -
            receptor.
ACCESSION   E13443
VERSION     E13443.1  GI:3252248
KEYWORDS    JP 1997187299-A/5.
SOURCE      unidentified
  ORGANISM  unidentified
            unclassified.
REFERENCE   1  (bases 1 to 26)
AUTHORS     Kimoto,Y.
TITLE       PRIMER FOR PCR
JOURNAL     Patent: JP 1997187299-A 5 22-JUL-1997;
            NIPPON BIO SERAPII KK
COMMENT     OS      None
            OC      Artificial sequences.
            PN      JP 1997187299-A/5
            PD      22-JUL-1997
            PF      05-JAN-1996 JP 1996027222
            PI      KIMOTO YASUHIKO
            PC      C12Q1/68, C07H21/04, C12N15/09;
            CC      strandedness: Single;
            CC      topology: Linear;
            CC      hypothetical: No;
            CC      anti-sense: Yes;
            FH      Key                               Location/Qualifiers
            FH
            FT      source                               1..26
            FT                                           /organism='Artificial sequences' FT
            misc_feature  1..26
            FT                                           /note='PCR primer E-7'.
FEATURES             Location/Qualifiers
     source          1..26
                    /organism="unidentified"
                    /mol_type="genomic DNA"
                    /db_xref="taxon:32644"
BASE COUNT          2 a          8 c          5 g          11 t
ORIGIN
1 catcatctct ctggcgttgg tgtttc
//

```

Disclaimer | Write to the Help Desk  
NCBI | NLM | NIH

May 2 2003 16:47:12